

Fig. 2

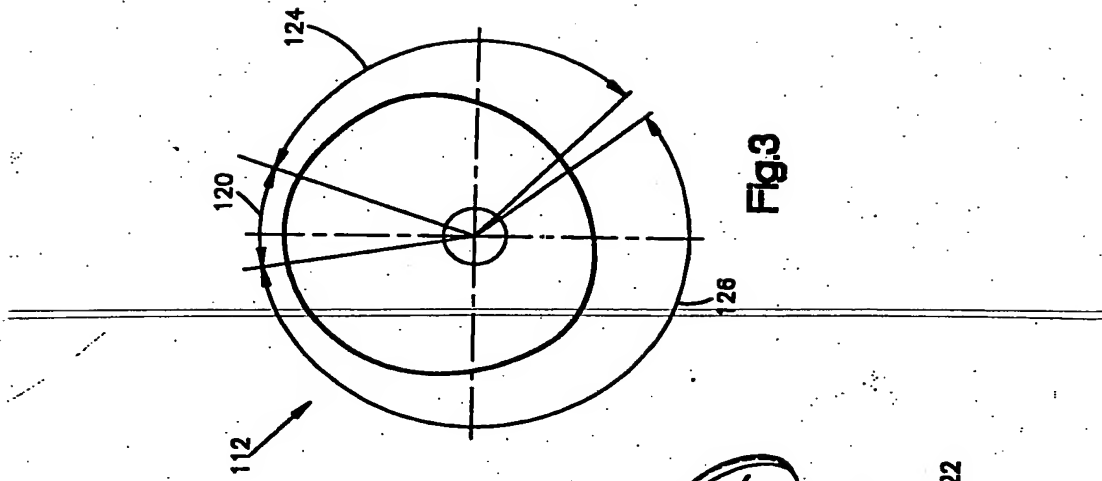


Fig. 3

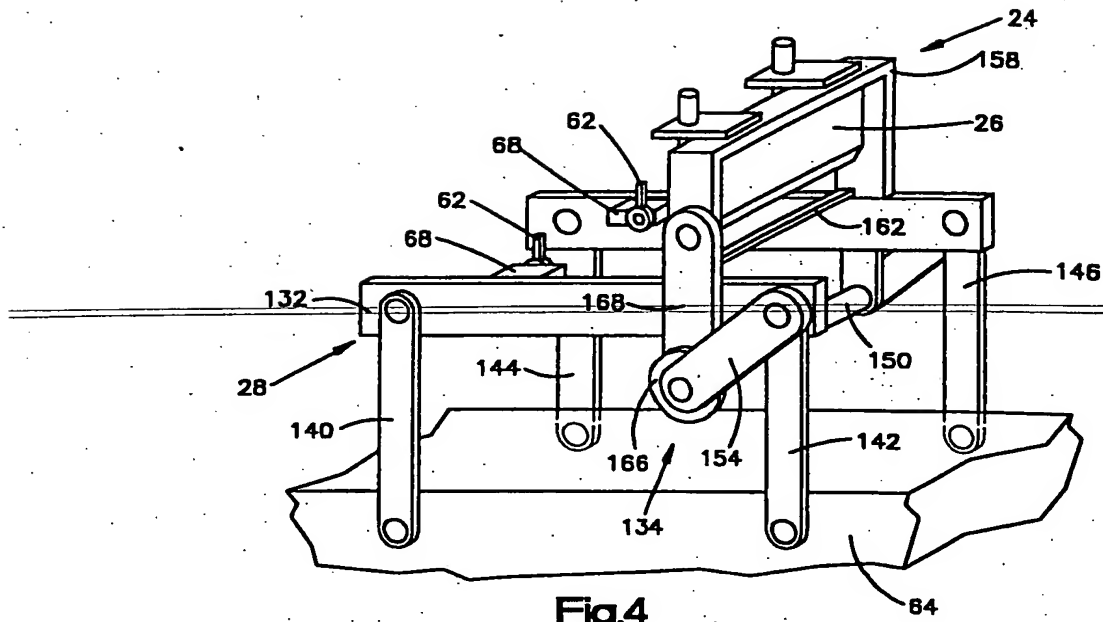


Fig.4

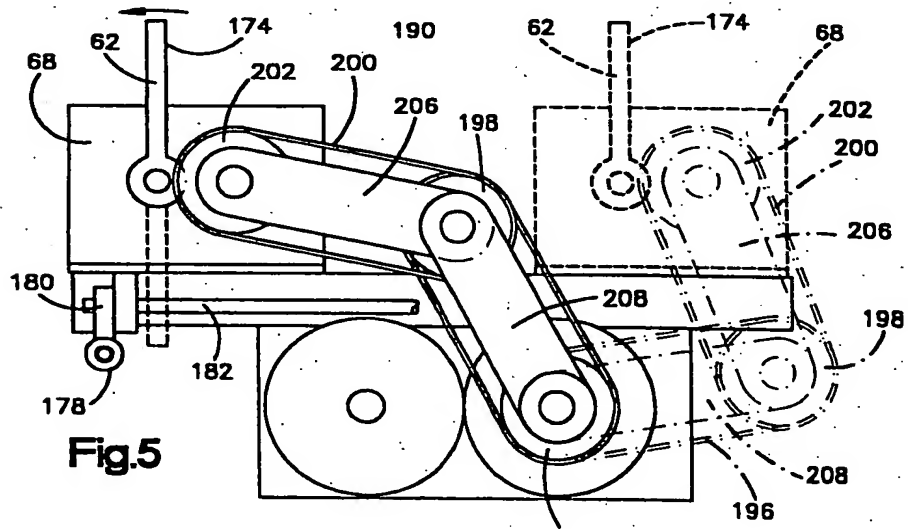
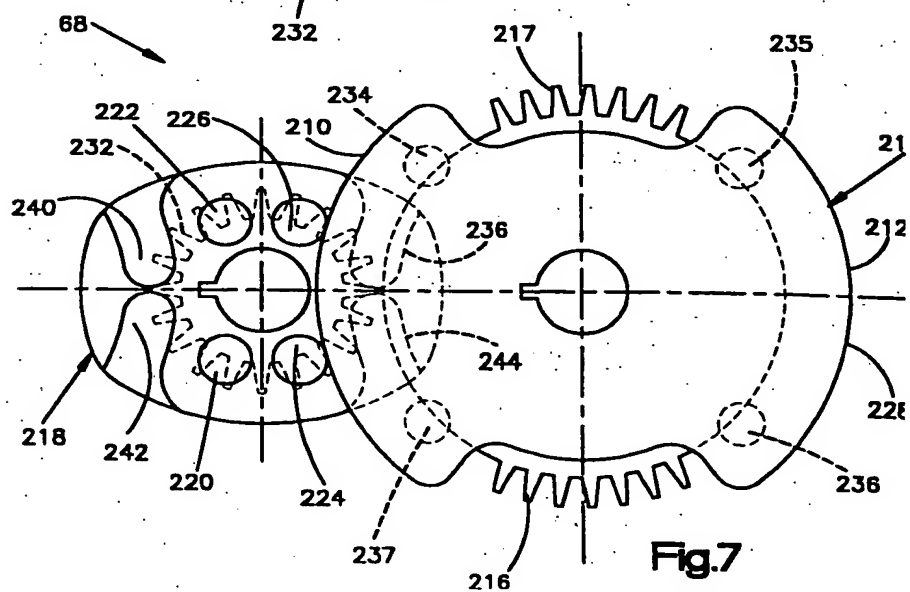
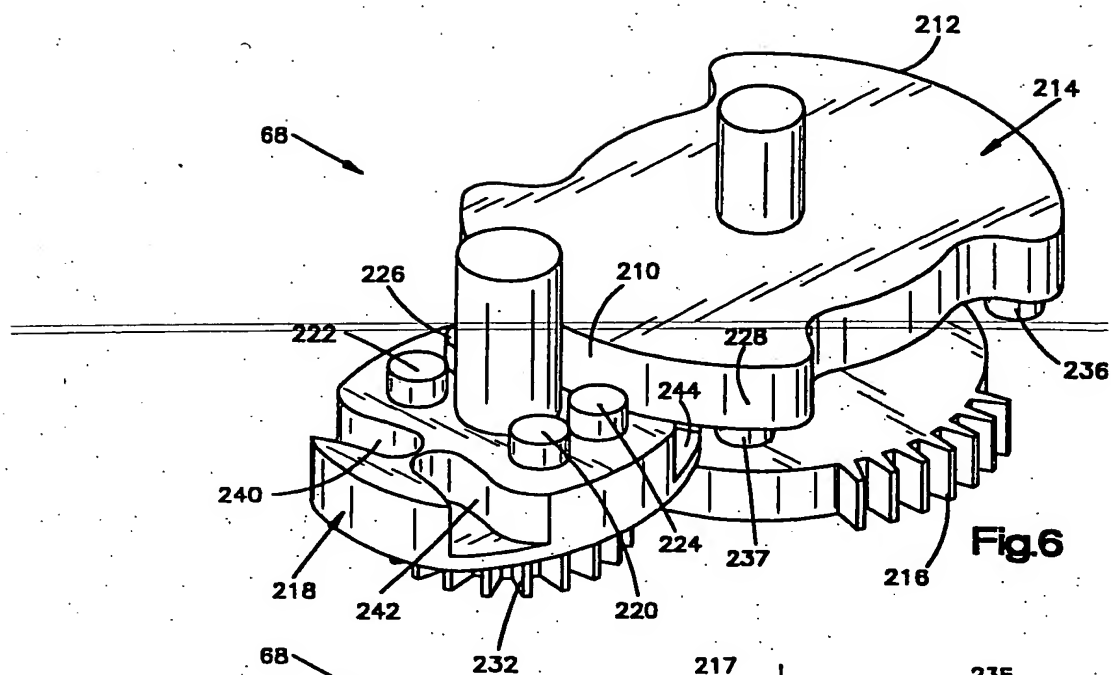


Fig.5



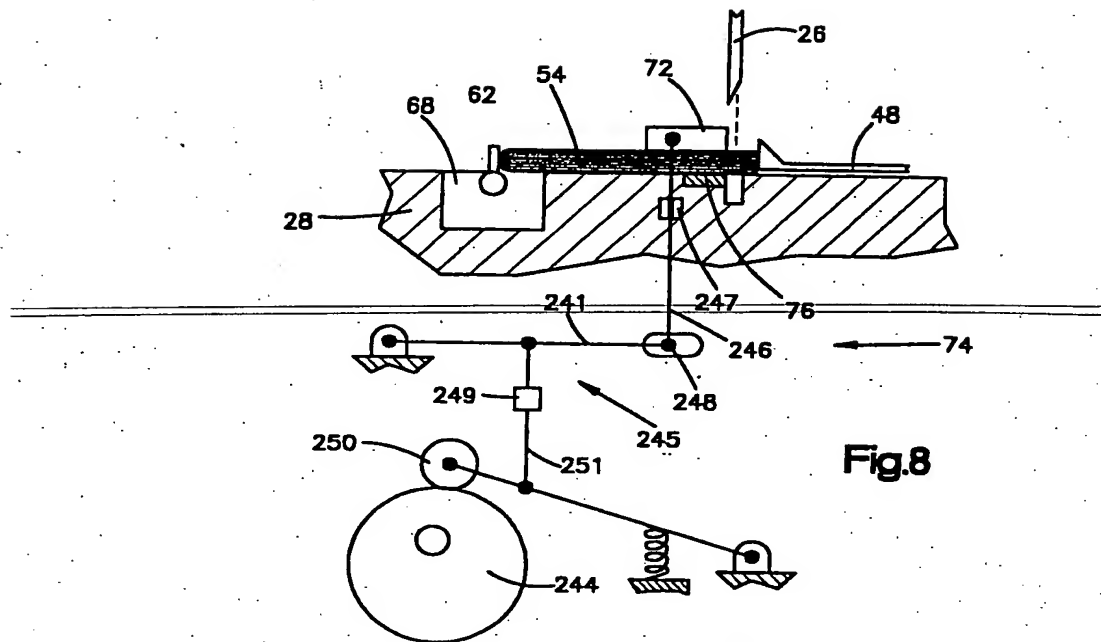


Fig.8

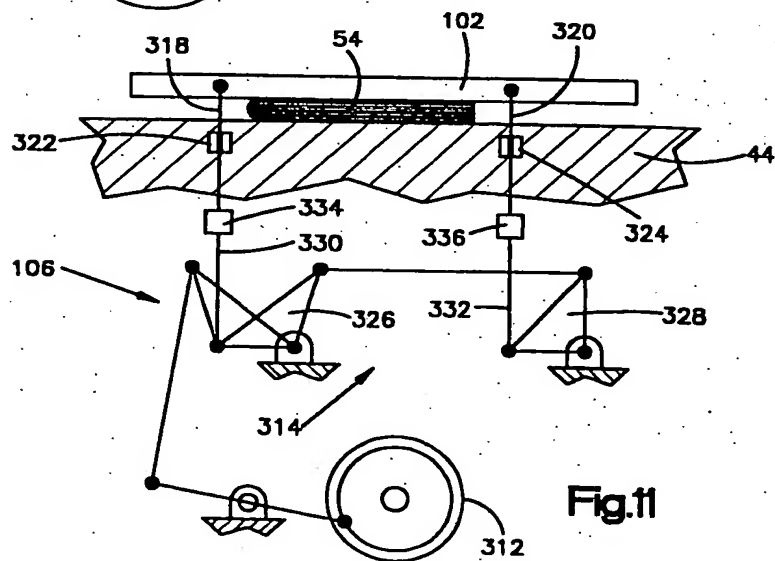


Fig.11

FIG. 9

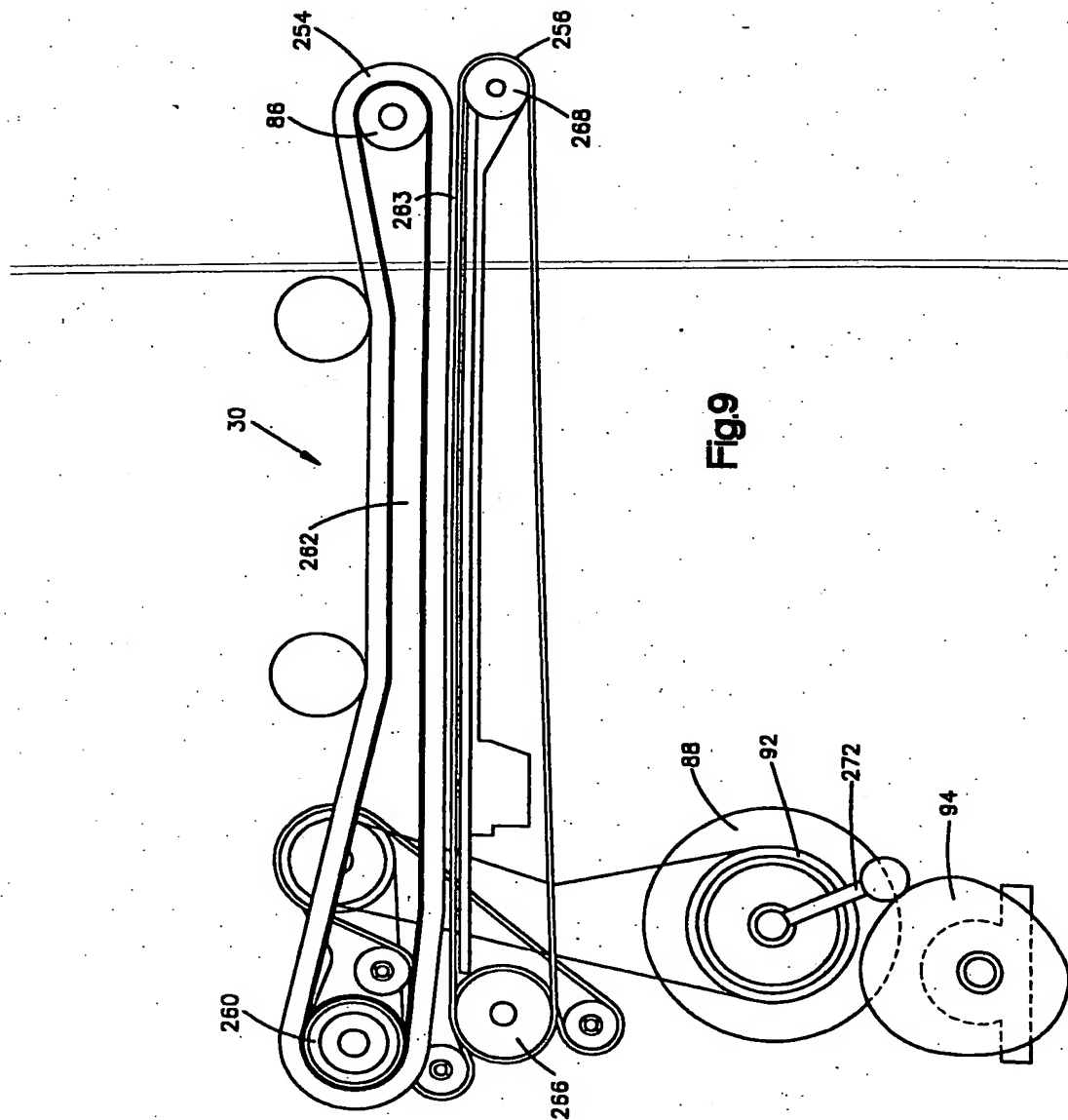


Fig.10

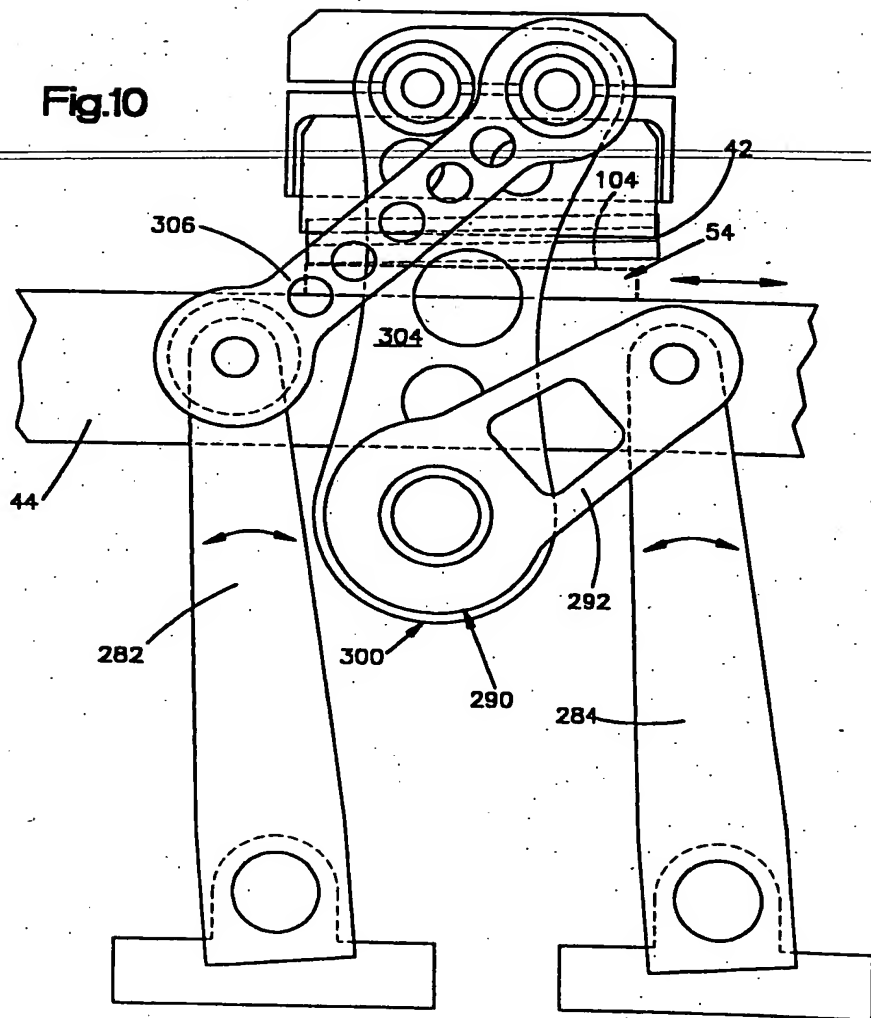


Figure 12 is a complex diagram illustrating the timing and sequence of events for a shuttle velocity match. It features three vertical velocity scales, each with a corresponding set of events and directional indicators.

- Scale 350 (Top):**
  - Directional Indicators: FORWARD (downward arrow), RETURN (upward arrow).
  - Events (from top to bottom):
    - FRONT TABLE UPSTREAM
    - CLAMP THICKEST BOOK
    - START CUT-THICKEST BOOK
    - CLAMP THINNEST BOOK
    - START CUT-THINNEST BOOK
    - BACKSTOPS START DOWN
    - TRANSFER BELT NIP DOWN AND CLAMP STARTS UP
    - CUT COMPLETE
    - BACKSTOPS START DOWN
    - FRONT CLAMP UP
    - FRONT TABLE DOWNSTREAM
- Scale 352 (Middle):**
  - Directional Indicator: FORWARD (downward arrow).
  - Events (from top to bottom):
    - CLAMPS START DOWN
    - CLAMPS START UP
    - CLAMP THIN BOOK
    - CLAMP THICK BOOK
- Scale 354 (Bottom):**
  - Directional Indicator: FORWARD (downward arrow).
  - Events (from top to bottom):
    - CLAMPS UP
    - CLAMPS DOWN
    - CLAMP THIN BOOK
    - CLAMP THICK BOOK

The diagram also includes several labels and arrows indicating the relationship between the scales and the events:

- 350:** Shuttle velocity match for the front table.
- 352:** Shuttle velocity match for the side table.
- 354:** Shuttle velocity match for the front table.
- 358:** Shuttle velocity match for the side table.
- FRONT TABLE UPSTREAM/DOWNSTREAM:** Indicated by arrows pointing to the top and bottom of the 350 scale.
- CLAMPS START DOWN/UP:** Indicated by arrows pointing to the corresponding events on the 352 and 354 scales.
- CLAMP THINNEST/THICKEST BOOK:** Indicated by arrows pointing to the corresponding events on the 352 and 354 scales.
- CUT COMPLETE:** Indicated by an arrow pointing to the event on the 350 scale.
- TRANSFER BELT NIP DOWN/UP:** Indicated by arrows pointing to the corresponding events on the 350 scale.
- BACKSTOPS START DOWN/UP:** Indicated by arrows pointing to the corresponding events on the 350 scale.
- FRONT CLAMP UP:** Indicated by an arrow pointing to the event on the 350 scale.

**Fig.12**



THESE ARE THE DATA FOR THE FRONT AND SIDE TABLES

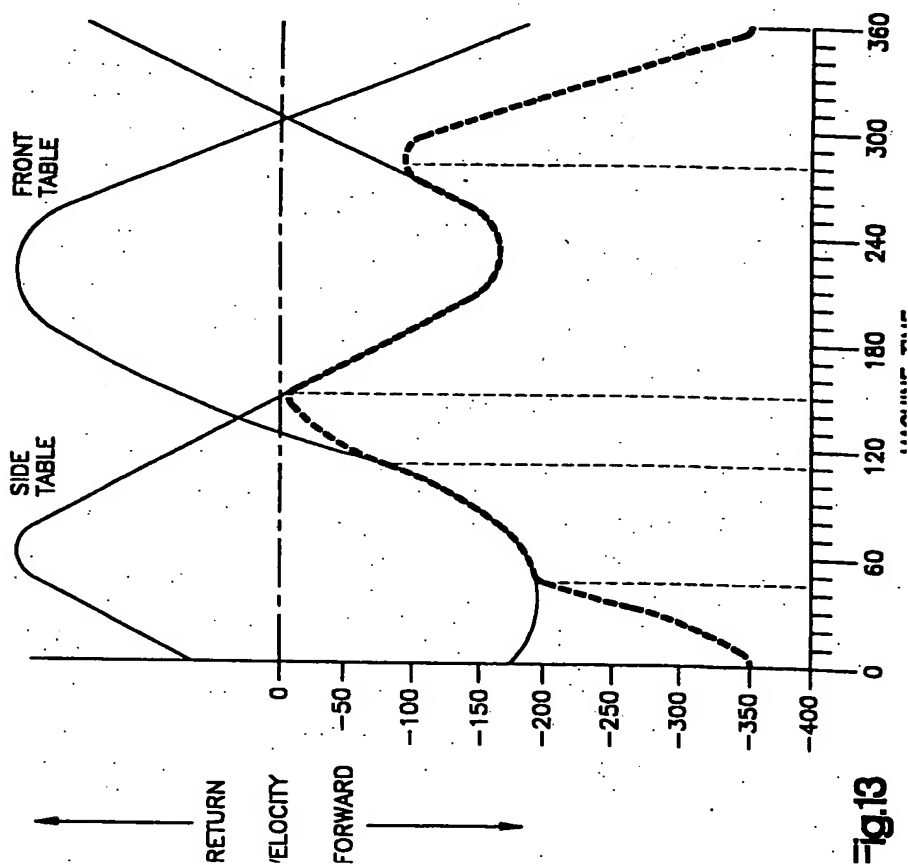


Fig. 13

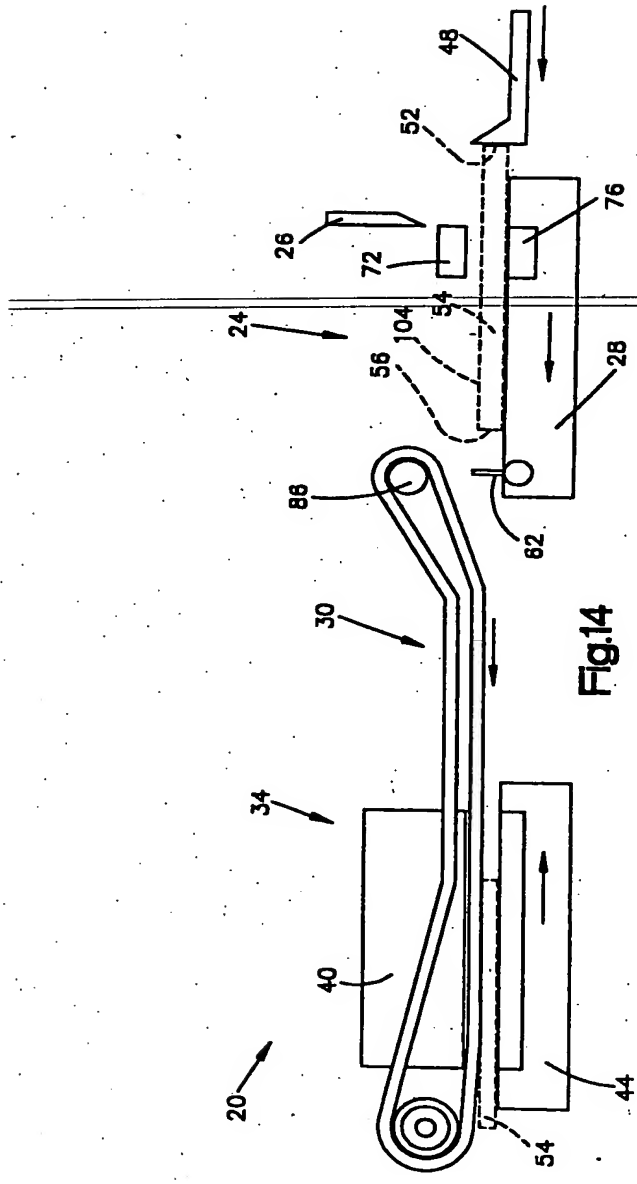


Fig. 14

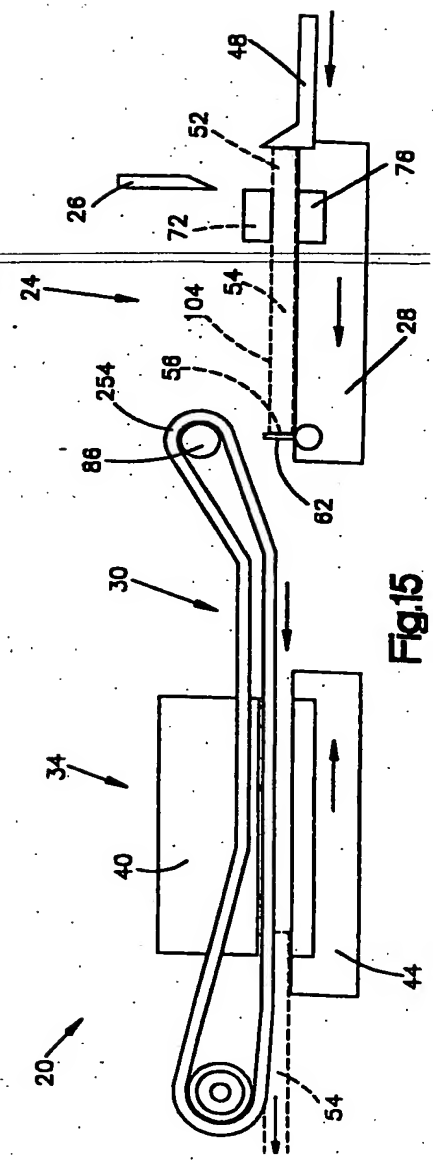


Fig. 15

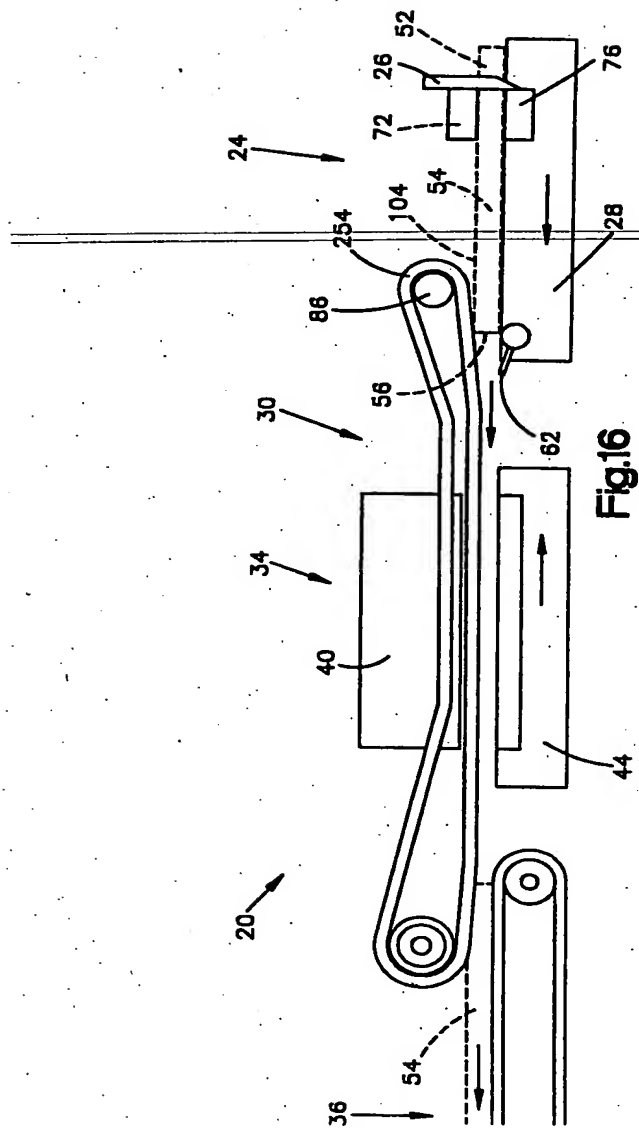


Fig. 16

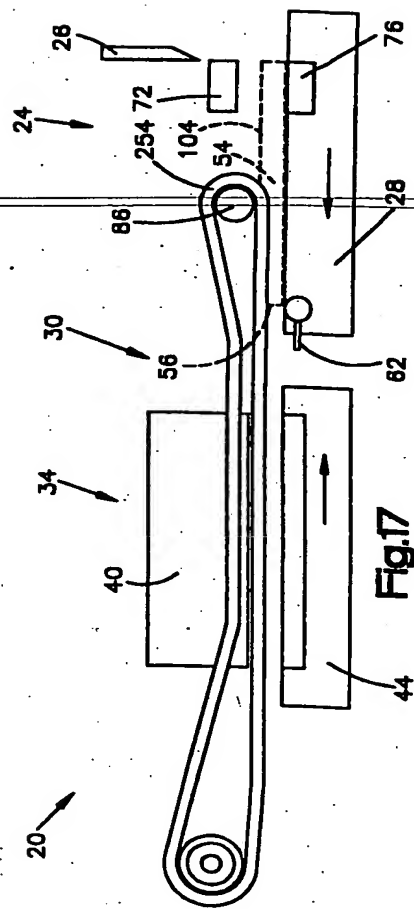


Fig. 17

FIG. 18

